

ACTION DESCRIPTION MEMORANDUM

FOR

CONSTRUCTION AND USE OF SURFACE WATER MONITORING STATIONS

Authorization Number 986475

Revision 1

EG&G Rocky Flats Inc
Rocky Flats Plant

Operating Contractor for

U S Department of Energy
Rocky Flats Office

July 1990

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ADMIN RECORD

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ACTION DESCRIPTION MEMORANDUM
FOR
CONSTRUCTION AND USE OF SURFACE WATER MONITORING STATIONS

1 0 PURPOSE

The purpose of this Action Description Memorandum (ADM) is to provide sufficient information to permit a determination of the NEPA documentation required in compliance with DOE Orders 5440 1C and AL 5440 1B under the National Environmental Policy Act (NEPA)

2 0 PROPOSED ACTION

The proposed action provides for the construction and subsequent operation of seven surface water monitoring and sampling stations along Woman Walnut and Rock Creeks in the Rocky Flats Plant (RFP) buffer zone. In addition six existing surface water monitoring stations in North Walnut Creek South Walnut Creek and Woman Creek will be upgraded for subsequent operation

2 1 Need for Action

The seven proposed stations will be used in conjunction with six existing stations to monitor the quantity and quality of the surface water at RFP. This monitoring is in fulfillment of interagency agreements (IAG) and RCRA requirements

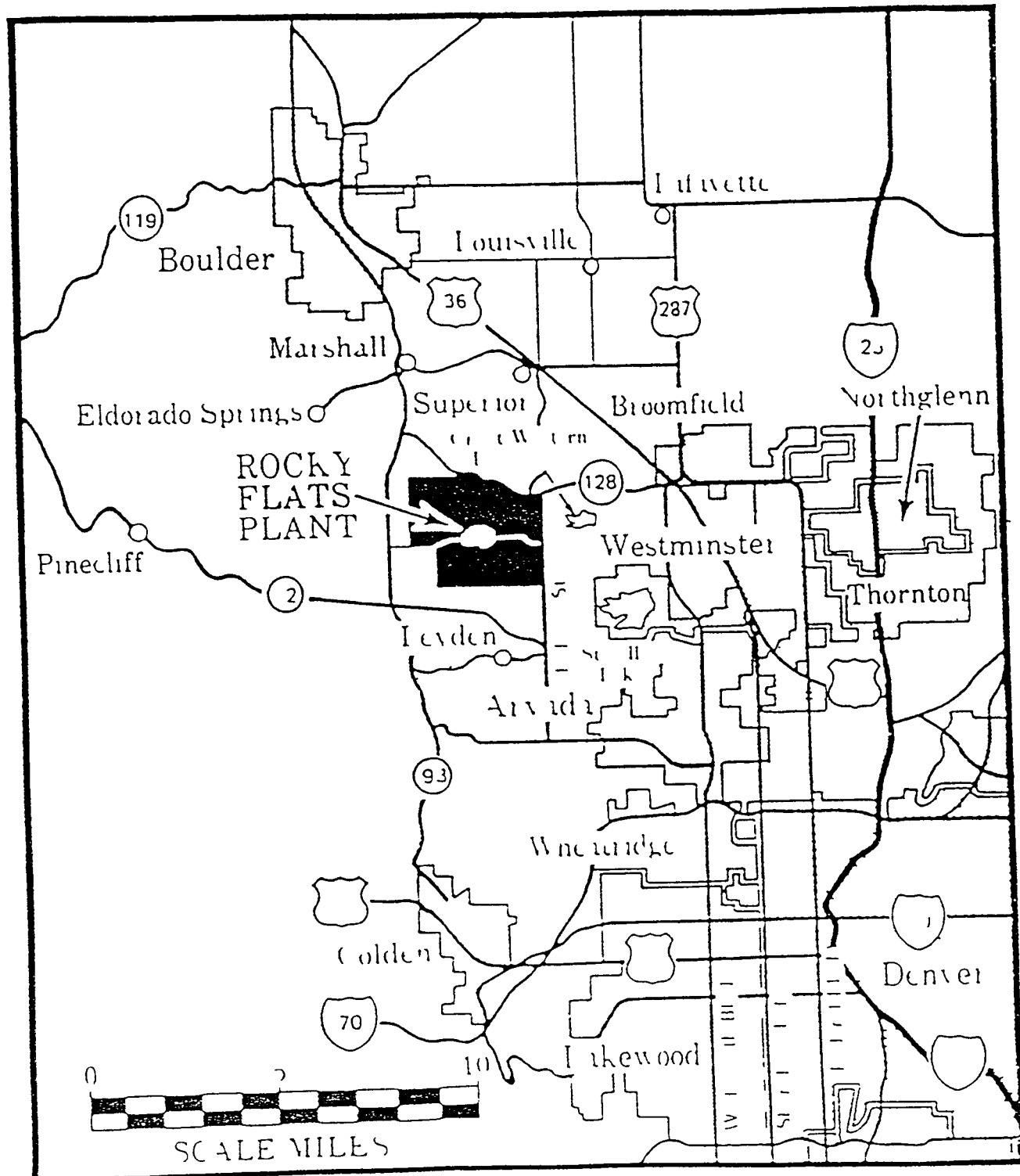
2 2 Location of Action

The location for the proposed action is at the Rocky Flats Plant in northern Jefferson County 16 miles northwest of downtown Denver Colorado (See Figure 1). The proposed monitoring sites are along Woman Walnut and Rock Creeks (See Figure 2)

2 3 Description of Action

Existing stations will be upgraded by installing refrigerated samplers flow measuring equipment and storage buildings. The seven new stations will require the items listed for the upgrades plus the routing of electrical power to each and the installation of seven new flumes. An access road of approximately 1000 feet will be installed for one of the new monitoring stations. Existing access roads will be used for the other stations. The access roads will be used for installation activities and subsequent periodic traffic of environmental monitoring personnel

Figure 1
LOCATION OF ROCKY FLATS AND SURROUNDING COMMUNITIES



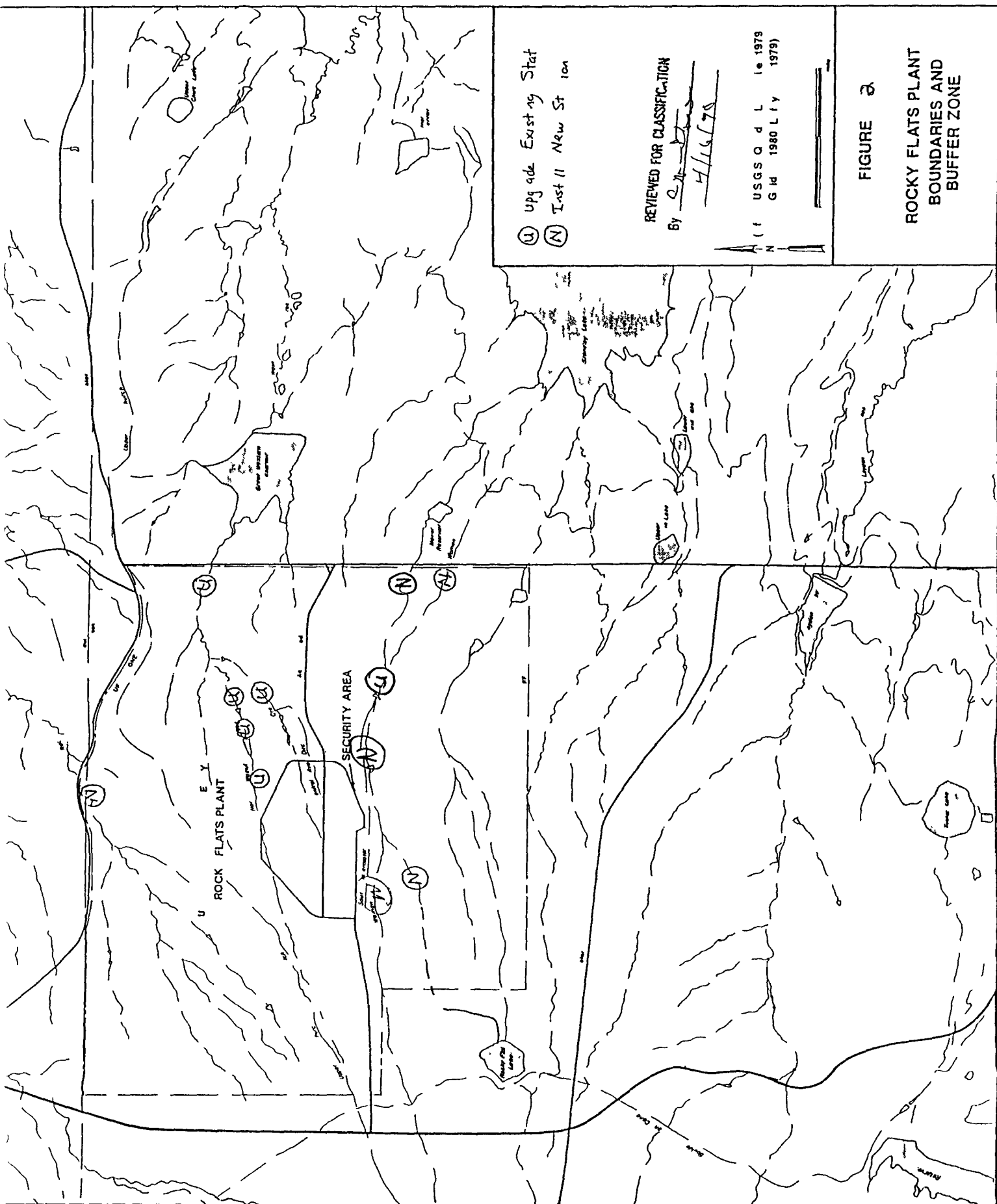


FIGURE 2

ROCKY FLATS PLANT
BOUNDARIES AND
BUFFER ZONE

2 3 1 General

Each monitoring station includes installing an equipment and storage building approximately 6 ft (W) X 12 ft (W) X 7 ft(H) approximately 20 ft from each flume. The flumes will cover an area approximately 10 ft X 4 ft with a 4 ft maximum depth. Drainage into each of the flumes will be routed using diversion structures consisting of clean fill dirt. The buildings and new flumes will be prefabricated fiberglass construction.

2 3 2 Site Development

No hazardous materials are expected to be encountered during installation of the new equipment. The new flumes will be placed in the existing routes of the aforementioned creeks. Riprap material will be installed in the creek bed areas from the exit of the new flumes to approximately 30 ft downstream. Concrete pads measuring 6 ft X 12 ft X 1 ft concrete pads will be installed at each site before erection of the new buildings. Power poles and lines will be installed connecting the new monitoring stations with nearby power supply lines. New access roads will consist of bed material similar to other buffer zone access roads at Rocky Flats.

2 4 Alternatives To The Proposed Action

2 4 1 No Action Alternative

The No Action alternative would entail no construction of the surface water monitoring stations. This alternative is not desirable because of non compliance with IAG and RCRA requirements.

2 4 2 Other Alternatives

No other alternatives have been identified at this time.

3 0 POTENTIAL ENVIRONMENTAL AND SAFETY ISSUES

3 1 Potential Hazards and Controls

3 1 1 Construction Issues

3 1 1 1 Radiation Safety and Confinement

No radioactive materials are involved with the construction of the monitoring stations.

3 1 1 2 Explosion

Other than from commonly encountered construction hazards, there are no unique explosion hazards associated with the proposed action.

3 1 1 3 Fire

Other than from commonly encountered construction hazards there are no unique fire hazards associated with the proposed actions. Administrative controls will be required to avoid buildup of fire fuel loading at the construction site.

3 1 1 4 High Voltage or Current

Voltages and currents used for this action are typical of those used throughout the Plant and are common hazards of industry. All electrical work will comply with applicable rules of the latest edition of the National Electric Code.

3 1 1 5 Hazardous Wastes, Material and Other Substances

No unique toxic chemical hazards are associated with construction of the proposed actions. The proposed actions are not located within areas identified as a solid waste management units (SWMUs).

3 1 1 6 Mechanical

There are no mechanical hazards associated with the construction of the proposed system other than the usual industrial hazards associated with materials transport and handling.

3 1 1 7 Other Hazards

Dust suppression during excavation activities will be conducted in accordance with the provisions in the Rocky Flats Operational Safety Analysis #1 (RFOSA 1). Dust suppression for all outdoor construction will be in accordance with DOE Order 6430 1A, Division 1, Section 01504.3.

No other hazards have been identified.

3 2 1 Operation Issues

3 2 1 1 Radiation Safety and Confinement

The proposed expansion area will not involve radioactive materials.

3 2 1 2 Nuclear Criticality Safety

This project will not involve fissile materials.

3 2 1 3 Explosion

No unique explosion hazards associated with the operation of the proposed monitoring stations have been identified. Explosion hazards if encountered will be handled according to RFP procedure.

3 2 1 4 Fire

There are no unique fire hazards associated with the operation of the proposed monitoring stations.

3 2 1 5 High Voltage or Current

There are no unique high voltage and current hazards associated with operation of the proposed monitoring stations.

3 2 1 6 Hazardous Wastes, Materials and Other Substances

Operation of the monitoring stations will not result in the generation of hazardous waste. Samples will be handled in accordance with the requirements of RCRA as implemented in the Colorado Hazardous Waste Regulation (6 CCR 1007.3).

3 2 1 7 Mechanical

No unique mechanical hazards are associated with the operation of the surface monitoring stations.

3 2 1 8 Other Hazards

No other hazards have been identified at this time.

3 2 2 Postulated Accidents

Maximum Credible Accidents and risk to the public postulated in the Final Environmental Impact Statement of the Rocky Flats Plant (DOE/EIS 0064) are not impacted (or significantly increased) by this proposed action.

4 0 REGULATORY COMPLIANCE

4 1 Resource Conservation and Recovery Act (RCRA)

Any hazardous or mixed waste that might be generated as a result of this action will be handled in accordance with the requirements of RCRA as implemented in the Colorado Hazardous Waste Regulation (6 CCR 1007 3)

4 2 National Pollutant Discharge Elimination System

The proposed action will not impact liquid effluents and therefore will not impact the Plant Environmental Protection Agency National Pollutant Discharge Elimination System permit

4 3 Clean Air Act

Airborne emissions from Rocky Flats will not be impacted by the proposed action

4 4 NEPA Specific Considerations

4 4 1 Wetlands

Consultation with the U S Army Corps of Engineers was conducted in the fall of 1989 The general location of jurisdictional wetlands on plantsite was characterized Proposed sites along Woman and Rock Creek are located within wetlands previously determined to be under the jurisdiction of the U S Army Corps of Engineers (Corps) Approximately 6 600 square feet cumulative of area will be impacted The Corps will review the proposed action and make a determination of whether the project will be under a 404 Nationwide Permit

4 4 2 Floodplains

The proposed sites are located within the potential 100 year floodplain An assessment may be required by 10 CFR 1022 to determine impacts on the floodplain An assessment if required will be initiated by EG&G Rocky Flats Inc

4 4 3 Historical/Cultural Sites

In a letter to A E Whiteman then Manager of the DOE Rocky Flats Area Office the Colorado State Historical Preservation Officer B Sudler stated There will be no effect to significant cultural resources by further development within RFP provided [two specified sites] are avoided These sites were identified in An Archaeological and Historical Survey of Selected Parcels within the DOE RFP and will not be affected by the proposed action

4 4 4 Threatened and Endangered Species

The bald eagle and the black footed ferret have been identified by the United States Fish and Wildlife Service (USFWS) as endangered species of interest at the plant The proposed action would not impact either the bald eagle or black footed ferret habitat

5 0 FISCAL AND SCHEDULE INFORMATION

The total estimated cost (TEC) of this action is approximately \$1 million

The funding source of the proposed action is Expense Funds

The first year of funding is FY 1990 and continues into FY 1991

There are no previous titles of the proposed project

6 0 ADDITIONAL DOCUMENTATION

This project will comply with DOE Orders 6430 1A

Standard operating procedures will be written for any new equipment and/or systems